



# BMG165BL



Generator Model	Engine brand	Engine Model	Alternator brand	Alternator model	Controller
BMG165BL	Baudouin	6M11G165/5	Nidec Leroy Somer	LSAP 44.3 H	DEIF SGC 120/420
Prime Power KVA/KW	Standby Power KVA/KW	Power Factor/ Phase	Fuel Tank	Net weight	Dimensions
150 / 120	165 / 132	0.8/ 3 phase	290	2210	3200*1080*2000

**Standby:** Standby power standby duty, operation under variable load, without overload.

**Prime Power:** Prime Power Continuous duty operation, under variable load, 10% overloads permissible 1/12hr.



# ENGINE TECHNICAL DATA

## ENGINE MODEL: BAUDOUIIN 6M11G165/5

Speed	Gross Engine Output		Net Engine Output	
	PRP	ESP	PRP	ESP
RPM	kW	kW	kW	kW
1500	138	152	133	147

- 1) All ratings are based on operating conditions under ISO 8528-1, ISO 3046, DIN6271. Performance tolerance of  $\pm 5\%$ .
- 2) Test conditions: 100 kPa, 25°C air inlet temperature, relative humidity of 30%, with fuel density 0.84 kg/L. Derating may be required for conditions outside these; please contact the factory for details.
- 3) Power output curves are based on the engine operating with fuel system, water pump and lubricating oil pump; not included are battery charging alternator, fan and optional equipment.

## BASIC DATA

Engine Model	<b>6M11G165/5</b>
No. of Cylinders/Valves	6/12
Bore x Stroke (mm)	105 x 130
Displacement (L)	6.75
Governor	Electronic
Aspiration	Turbocharged and Aftercooled
Compression Ratio	18:01
Piston Speed (m/s)	6.5
Air Intake Flow @ ESP (m <sup>3</sup> /min)	9.27
Exhaust Flow @ ESP (m <sup>3</sup> /min)	24
Weight (Kg)	692
Cooling fan airflow (m <sup>3</sup> /min)	304.5



## FUEL CONSUMPTION (L/h)

100% load ESP	36.1
100% load PRP	32.6
75% load PRP	24.6
50% load PRP	16.7

## LUBRICATION SYSTEM

Oil pressure in normal condition idle speed (Bar)	≥1.2
Lowest oil pressure alarm (shutdown) (Bar)	1
Max. oil temperature permitted in oil pan (°C)	105
Total system capacity (including filters) (L)	19

## COOLING SYSTEM

Coolant alarm (shutdown) temperature (°C)	105
Thermostat adjusting temperature (°C)	76 / 90
Coolant capacity-engine only(L)	8

## FUEL SYSTEM

Max. restriction at fuel pump inlet (Bar)	0.09
Fuel supply flow (L/hr)	92
Max. fuel return restriction (Bar)	0.12
Max. fuel inlet temperature (°C)	50

## ELECTRIC SYSTEM

Battery charger current (A)	80
Starter power (kW)	4

## ALTERNATOR TECHNICAL DATA



Brand	NIDEC LEROY SOMER
Model	LSAP 44.3 H
Power	160 kVA
Number of Poles	4
Insulation	Class H
Protection class (according IEC-34-5)	IP23
Exciter system	Self-excited, brushless
Voltage regulator	A.V.R. (Electronic)
Bracket type	Single bearing

# GENSET CONTROLLER DEIF SGC 120/420

<b>Control</b>	Auto/Start/Stop Control Emergency Stop Pushbutton/ Alarm Engine Cool Down Timer Warm - up Timer Load Switching Timer Engine Cycle Crank	
<b>Indications</b>	Operating Hours 3 Phase Generator Voltage Sensing & Monitoring Current Protection & Monitoring Power Measurement (kW, kVA, kVAr, kWh, kVAh, pf) Frequency Monitoring (Hz) Oil Pressure/Coolant Temperature/Fuel Level Monitoring Battery Voltage Monitoring (DC) Alarm (Acknowledge)	
<b>Warning &amp; Shutdown Alarms</b>	Generator Over/Under Voltage & Frequency Crank Disconnect (Failure to Start) Under/Over Speed Over Current Low oil pressure High Water Temperature Low Fuel Level Low Water Level	
<b>Features</b>	IP 65 (if ordered with gasket) Basic Scheduler 8 - 35V DC Supply Digital Inputs(4) - Outputs(4 MPU/ 6 CAN) Event Log (5 shutdowns)	

**Disclaimer:** In line with continuous product development, we reserve the right to change specifications without notice.



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